PATENT COOPERATION TREATY

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PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P04645400	FOR FURTHER ACT	TION	See Form PCT/IPEA/416		
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)		
РСТ/ЈР2003/013794	28 October 2003	(28.10.2003)	28 October 2002 (28.10.2002)		
International Patent Classification (IPC) or a A61L 9/013	national classification and	IPC			
Applicant TAKA	SAGO INTERNATI	ONAL CORPOR	RATION		
This report is the international preli- Authority under Article 35 and trans	iminary examination reportsmitted to the applicant a	rt, established by thi ecording to Article 3	s International Preliminary Examining 6.		
2. This REPORT consists of a total of		including this cover	sheet.		
3. This report is also accompanied by					
a. (sent to the applicant an	d to the International Bur	eau) a total of	sheets, as follows:		
and/or sheets co Administrative l	ntaining rectifications aut Instructions).	horized by this Auth	been amended and are the basis of this report nority (see Rule 70.16 and Section 607 of the		
sheets which su beyond the disc Supplemental B	losure in the international	t which this Authori application as filed	ty considers contain an amendment that goes , as indicated in item 4 of Box No. I and the		
b. (sent to the Internati	indicated in the Supplement	ning a sequence list	type and number of electronic carrier(s)) ing and/or tables related thereto, in computer to Sequence Listing (see Section 802 of the		
4. This report contains indications re	lating to the following ite	ms:			
Box No. I Basis of the	report				
Box No. II Priority					
Box No. III Non-establi	shment of opinion with re	gard to novelty, inve	entive step and industrial applicability		
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application					
	ervations on the internation				
Date of submission of the demand		Date of completion	n of this report		
04 March 2004 (04.0	03.2004)	11	August 2004 (11.08.2004)		
Name and mailing address of the IPEA/J	P	Authorized office			
Facsimile No.		Telephone No.			

Translation



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2003/013794

Box No. I Basis of the report 1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on translations from the original language into the following language which is language of a translation furnished for the purpose of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3) 2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): The international application as originally filed/furnished the description: , as originally filed/furnished pages received by this Authority on pages* received by this Authority on pages* the claims: , as originally filed/furnished pages , as amended (together with any statement) under Article 19 pages* received by this Authority on pages* received by this Authority on pages* the drawings: ____, as originally filed/furnished pages received by this Authority on pages* received by this Authority on pages* a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages _ the claims, Nos. _____ the drawings, sheets/figs the sequence listing (specify): __ any table(s) related to sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. ____ the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify): _____ * If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Internal application No.
PCT/JP 03/13794

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-10	NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

2. Citations and explanations

Document 1: JP 10-262690 A (Showa Denko Kabushiki

Kaisha), 06 October 1998, entire text

Document 2: JP 64-016713 A (Lion Corp.), 20 January

1989, entire text

Document 3: JP 60-153778 A (Lotte Co., Ltd.), 13 August

1985, entire text

Claims 1 to 10 do not involve an inventive step in the light of document 1, document 2 and document 3 cited in the international search report.

Document 1 teaches a feature wherein a polyphenol is reacted within an alkaline solvent in the presence of oxygen molecules at a pH level of 8 or more.

In addition, document 2 discloses a deodorant composition which comprises a compound that is obtained via the reaction of a polyphenol-containing plant extract within a solvent in the presence of oxygen molecules as an active ingredient, and document 3 discloses a deodorant composition which comprises a colored compound that is obtained via the reaction of a polyphenol-containing plant body in the presence of oxygen molecules as an active ingredient.

Consequently, it would be easy for a person skilled in the art to configure a deodorant composition which

comprises a colored compound that is obtained via the reaction of a polyphenol, a plant extract or a plant body within an alkaline solvent in the presence of oxygen molecules at a pH level of 8 or more as an active ingredient of the deodorant.

In addition, configuring so that the oxygen molecule feed rate is 1 mg / L or more, the reaction temperature is within a range of 0 to 60°C, metal ions or α -amino acids are added to the reaction system and a hydroquinone or a polyphenol with an o-diphenol structure is used within the reaction is not significant in as much as all of these features are disclosed or suggested in documents 1 to 3.